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OTHER PRIOR ART — NON PATENT LITERATURE DOCUMENTS								
Examiner Initials*	Cite No. '	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.						
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•		wo	02/087291	A2	Mills	10-31-2002		
		wo	02/088020	A2	Mills	11-7-2002		
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		wo	03/093173	A2	Mills	11-13-2003		
		wo	03/066516	A2	Mills	8-14-2003		
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		wo	05/041368	A2	Mills	10-6-2005		
		wo	05/067678	A2	Mills	7-28-2005		
		wo	2005/116630	A1	Mills	12-08-2005		
		wo	2007/051078	A1	Mills	05-03-2007		
		wo	2007/053486	A1	Mills	05-10-2007		

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<sup>\*</sup>EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>&</sup>lt;sup>1</sup> Unique citation designation number. <sup>2</sup> See attached Kinds of U.S. Patent Documents. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST. 3) <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

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		OTHER PRIOR ART — NON PATENT LITERATURE DOCUMENTS							
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,		S. Aaronson, "Hydrino Theory: Which Overturns Quantum Theory, Is in Turn Overturned by Doofusino Theory," <a href="http://www.scottaaronson.com/writings/doofusino.html">http://www.scottaaronson.com/writings/doofusino.html</a>							
		"Atomic Physics Progress Report 1995-1996" (internet page) atompc2.fysik.lth.se/AFDOCS/Progrep956/contents.asp (author and date unknown)							
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		R. W. Bass, "Email from Bob Bass to Randell Mills," August 6, 2000.	
		Beiser, A. Concepts of Modern Physics, Fourth Edition, McGraw-Hill Book Company, New York, 1978, p. 407.	
		"The Biggest Venture Capital Conference of the Year is Quickly Approaching," Special to Evening Bullitin 09/29/2006, <a href="http://www.theeveningbulletin.com/site/news.cfm?newsid=17263371&amp;BRD=2737&amp;PAG=461&amp;dept_id=57636&amp;rfi=6">http://www.theeveningbulletin.com/site/news.cfm?newsid=17263371&amp;BRD=2737&amp;PAG=461&amp;dept_id=57636&amp;rfi=6</a>	
		"Blacklight Power - do they have something significant?" (internet page) www.phact.org/e/blp.htm (author and date unknown)	
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		Bradford. "A Calorimetric Investigation of the Reaction of Hydrogen with Sample PSU #1." A Confidential Report submitted to Hydrocatalysis Power Corporation, September 1994.	
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<sup>&</sup>lt;sup>1</sup> Unique citation designation number. <sup>2</sup> Applicant is to place a check mark here is English language Translation is attached.

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		Conversion Table cgs/Si-Units. www.plasmaphysics.org.uk/convers.htm	
Examiner Signature		Date Considered	<u> </u>

<sup>\*</sup>EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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	- "	Dennis "Hidden Variables and Relativistic Tachyons" (internet page) www.objectivescience.com/articles/ed_tachy.htm (Date unknown)	
		Directory: Blacklight Power, From PESWiki "A Top 100 Energy Technology," <a href="http://peswiki.com/index.php/Directory:Blacklight_Power">http://peswiki.com/index.php/Directory:Blacklight_Power</a>	
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<sup>\*</sup>EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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		E-mail to Examiner Wayner from Jeffrey A. Simenauer	
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		The Harvard Crimson News: Academics Question the Science Behind Blacklight Power, Inc." <a href="http://www.the.crimson.com/printerfriendly.aspx?ref=100939">http://www.the.crimson.com/printerfriendly.aspx?ref=100939</a>	
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	!	Hines, "Scientific Mistakes: N-rays and Polywater", <i>Pseudoscience and the Paranormal</i> , Prometheus Books, 1988, pp. 8-13	
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<del> </del>		"Hydrino Theory," <http: en.wikipedia.org="" hydrino_theory="" wiki=""></http:>	
		"The Hydrogen Atom," <http: classes="" node208.html="" ph13xbook="" www.physics.nmt.edu="" ~raymond=""></http:>	
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Examiner Signature		Date Considered	<u> </u>

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<sup>&</sup>lt;sup>1</sup> Unique citation designation number. <sup>2</sup> Applicant is to place a check mark here is English language Translation is attached.

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Coocatott	10/10/11/14/05/17/0		*	Application Number	09/110,678	
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	ATEMENT E			First Named Inventor	Mills	
				Group Art Unit	1745	
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Sheet	16	of	35	Attorney Docket Number		

		OTHER PRIOR ART — NON PATENT LITERATURE DOCUMENTS	
Examine r Initials*	Cite No. 1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
		Physics Web 08/05/2005, "Hydrogen results causes controversy"	,
	·	Popov. "Electrochemical Characterization of BlackLight Power, Inc. MH as Electrodes for Liion Batteries." Department of Chemical Engineering University of South Carolina, Feb 2000.	
		Real Climate, 20 January 2005, "Peer Review: A Necessary But Not Sufficient Condition," <a href="http://www.realclimate.org/index.php?p=109">http://www.realclimate.org/index.php?p=109</a>	
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		E-K Souw, "Anomalous Broadening and Splitting of HeI and ArI lines in microwave plasmas," unpublished data, 12/01/2003.	
		Tegmark, et. al. "100 Years of Quantum Mysteries." Scientific American, Feb 2001, pp. 68-75.	
		Thermacore, Inc. "SBIR Phase I Nascent Hydrogen: An Energy Source." Final Report, March 1994.	
Examiner Signature		Date Considered	

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	ATEMENT B			First Named Inventor	Mills	
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		Thorne, et. al. "Recombination during the Electrolysis of Light Water in 0.6 M K <sub>2</sub> CO <sub>3</sub> Can It Account for the Reports of Excess Heat?" <i>Departments of Physics and Chemistry, Brigham Young University</i> , June 1993.	
		Time 2 wake up: "New Power SOURCE that turns physics on its head," 11/09/2005.	
		Turner. "Declaration of Dr. Gary L. Turner." 24 August 2004.	
		U.S. Department of Commerce, Summary of Ethics Rules, USPTO, 2000; October 15, 2004	
		Welcome to MIT's OpenCourseWare Home Page. MIT 2005. http://oxw.mit.edu/index.html	
		Weisskopf, V.F. "Recent developments in the theory of the electron." Reviews of Modern Physics, Vol 21, No 2, 1949, pp. 305-315.	
		Wikipedia, Chapter 9: "Peer Review and Fraud," <a href="http://en.wikipedia.org/wiki/peer_review#peer_review_and_fraud">http://en.wikipedia.org/wiki/peer_review#peer_review_and_fraud</a>	
		"XPS (EASC) –SAM," http://www.noveonic.com/measurementscience/analyticalservices/xpsescasam.pdf	
Examiner Signature		Date Considered	1

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				Group Art Unit	1745	
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Sheet	18	of	35	Attorney Docket Number		

OTHER PRIOR ART — NON PATENT LITERATURE DOCUMENTS									
Examine r Initials*	Cite No. 1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T²						
		Ziegler, et. al. "Electrochemical Experiments in Cold Nuclear-Fusion." <i>Physical Review Letters</i> , Vol 62, No 25, June 19, 1989, pp. 2929-2932							
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Examine r Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>		
		116. K. Akhtar, J. Scharer, R. L. Mills, "Substantial Doppler Broadening of Atomic Hydrogen Lines in DC and Capactively Coupled RF Plasmas," IEEE Transactions on Plasma Science, submitted. (Internet Publication Date: June 6, 2006.)			
		115. R.L. Mills, H. Zea, J. He, B. Dhandapani, "Water Bath Calorimetry on a Catalytic Reaction of Atomic Hydrogen," International Journal of Hydrogen Energy, in press. (Internet Publication Date: May 12, 2006)			
		114. R.L. Mills, K. Akhtar, B. Dhandapani, "Tests of Features of Field-Acceleration Models for the Extraordinary Selective H Balmer α Broadening in Certain Hydrogen Mixed Plasmas," J. Plasma Phys submitted. (Internet Publication Date: June 24, 2005.)			
113. R.L. Mills, "Physical Solutions of the Nature of the Atom, Photon, and Their Interactions to Form Excited and Predicted Hydrino States," Physics Essay, in press (Internet Publication Date: June 9, 2005.)					
		112. R. L. Mills, J. He, Y. Lu, Z, M. Nansteel, Chang, B. Dhandapani, "Comprehensive Identification and Potential Applications of New States of Hydrogen," Int. J. Hydrogen Energy, Vol. 32, (2007), 2988–3009. (Internet Publication Date: May 9, 2005.)			
		111. R. L. Mills, J. He, Z, Chang, W. Good, Y. Lu, B. Dhandapani, "Catalysis of Atomic Hydrogen to Novel Hydrogen Species H <sup>-</sup> (1/4) and H <sub>2</sub> (1/4) as a New Power Source," International Journal of Hydrogen Energy, Vol. 32(13), (2007), pp. 2573–2584. (Internet Publication Date: May 6, 2005.)			
110. R. L. Mills, J. He, Z, Chang, W. Good, Y. Lu, B. Dhandapani, "Catalysis of Aton Hydrogen to Novel Hydrides as a New Power Source," Prepr. Pap.—Am. Chem. Sor Fuel Chem. 2005, 50(2). (Internet Publication Date: April 22, 2005.)					
		109. R. L. Mills, M. Nansteel, J. He, B. Dhandapani, "Low-Voltage EUV and Visible Light Source Due to Catalysis of Atomic Hydrogen," J. Plasma Physics, submitted. (Internet Publication Date: April 15, 2005.)			
Examiner Signature		Date Considered			

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Substitute	e for form 1449B/PTO			Complete if Known		
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	ATEMENT B			First Named Inventor	Mills	
				Group Art Unit	1745	
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Sheet	20	of	35	Attorney Docket Number		

		OTHER PRIOR ART — NON PATENT LITERATURE DOCUMENTS					
Examine r Initials*	Cite No. 1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>				
		108. R. L. Mills, J. He, M. Nansteel, B. Dhandapani, "Catalysis of Atomic Hydrogen to New Hydrides as a New Power Source," International Journal of Global Energy Issues (IJGEI). Special Edition in Energy Systems, in press. (Internet Publication Date: April 4, 2005.)					
		107. R. L. Mills, "Maxwell's Equations and QED: Which is Fact and Which is Fiction," Physics Essays, in press. (Internet Publication Date: October 28, 2004.)					
X.		106. R. L. Mills, "Exact Classical Quantum Mechanical Solution for Atomic Helium which Predicts Conjugate Parameters from a Unique Solution for the First Time," Physics Essays, submitted. (Internet Publication Date: October 28, 2004.)					
		105. J. Phillips, C. K. Chen, R. L. Mills, "Evidence of Catalytic Production of Hot Hydrogen in RF-Generated Hydrogen/Argon Plasmas," International Journal of Hydrogen Energy, Vol. 32, (2007), 3010–3025. (Internet Publication Date: September 7, 2004.)					
		104. R. L. Mills, Y. Lu, M. Nansteel, J. He, A. Voigt, W. Good, B. Dhandapani, "Energetic Catalyst-Hydrogen Plasma Reaction as a Potential New Energy Source," Division of Fuel Chemistry, Session: Advances in Hydrogen Energy, 228th American Chemical Society National Meeting, August 22–26, 2004, Philadelphia, PA.					
		103. R. L. Mills, Dhandapani, W. Good, J. He, "New States of Hydrogen Isolated from K <sub>2</sub> CO <sub>3</sub> Electrolysis Gases," Chemical Engineering Science, submitted. (Internet Publication Date: April 28, 2004.)					
		102. R. L. Mills, "Exact Classical Quantum Mechanical Solutions for One- through Twenty- Electron Atoms," Phys. Essays, Vol. 18, No. 3 (2005), 321–361. (Internet Publication Date: April 22, 2004.)					
		101. Mills et al. "Energetic Catalyst-Hydrogen Plasma Reaction as a Potential New Energy Source," Division of Fuel Chemistry, Session: Chemistry of Solid, Liquid, and Gaseous Fuels, 227th American Chemical Society National Meeting, March 28-April 1, 2004, Anaheim, CA.					
Examiner Signature		Date Considered	1				

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STATEMENT BY APPLICANT				First Named Inventor	Mills
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				Examiner Name	Kalafut
Sheet	21	of	35	Attorney Docket Number	

		OTHER PRIOR ART — NON PATENT LITERATURE DOCUMENTS					
Examine r Initials*	Cite No. 1						
		100. Mills et al., "Highly Stable Amorphous Silicon Hydride from a Helium Plasma Reaction," Materials Chemistry and Physics, 94/2-3, (2005), pp. 298-307. (Internet Publication Date: Nov. 17, 2003.)					
		99. Mills et al., "Spectral Identification of H2(1/2)," submitted.					
		98. R. L. Mills, Y. Lu, J. He, M. Nansteel, P. Ray, X. Chen, A. Voigt, B. Dhandapani, "Spectral Identification of New States of Hydrogen," New Journal of Chemistry, submitted. (Internet Publication Date: Nov. 18, 2003.)					
		97. Mills et al., "Evidence of an Energy Transfer Reaction Between Atomic Hydrogen and Argon II or Helium II as the Source of Excessively Hot H Atoms in RF Plasmas," Journal of Plasma Physics, Vol. 72, Issue 4, (2006), pp. 469-484. (Internet Publication Date: Sept. 26,					
İ		96. Mills et al., "Evidence of the Production of Hot Hydrogen Atoms in RF Plasmas by Catalytic Reactions Between Hydrogen and Oxygen Species," J. Plasma Phys., submitted. (Internet Publication Date: Sept. 12, 2003.)					
		95. Mills et al., "Excessive Balmer α Line Broadening of Water-Vapor Capacitively-Coupled RF Discharge Plasmas," IEEE Transactions on Plasma Science, submitted. (Internet Publication Date: Aug. 18, 2003.)					
		94. Mills, "The Nature of the Chemical Bond Revisited and an Alternative Maxwellian Approach," Physics Essays, Vol. 17, (2004), pp. 342-389. (Internet Publication Date: Aug. 6, 2003.)					
		93. Mills et al., "Energetic Catalyst-Hydrogen Plasma Reaction Forms a New State of Hydrogen," Doklady Chemisty, submitted.					
Examiner Signature		Date Considered	I				

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## PTO/SB/08B (Modified)

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Sheet	22	of	35	Attorney Docket Number	

		OTHER PRIOR ART — NON PATENT LITERATURE DOCUMENTS	<u> </u>
Examine r Initials*	Cite No. 1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
•		92. Mills et al., "Energetic Catalyst-Hydrogen Plasma Reaction as a Potential New Energy Source," Central European Journal of Physics, submitted. (Internet Publication Date: June 6, 2003.)	
		91. R. Mills, P. Ray, "New H I Laser Medium Based on Novel Energetic Plasma of Atomic Hydrogen and Certain Group I Catalysts," J. Plasma Physics, submitted.	<b>:</b> -
		90. Mills et al., "Characterization of Energetic Catalyst-Hydrogen Plasma Reaction as a Potential New Energy Source," Am. Chem. Soc. Div. Fuel Chem. Prepr., Vol. 48, No. 2, (2003).	
		89. Mills et al., "Hydrogen Plasmas Generated Using Certain Group I Catalysts Show Stationary Inverted Lyman Populations and Free-Free and Bound-Free Emission of Lower-Energy State Hydride," Fizika A, submitted.	
		88. Mills et al., "Role of Atomic Hydrogen Density and Energy in Low Power CVD Synthesis of Diamond Films," Thin Solid Films, 478, (2005), pp. 77-90. (Internet Publication Date: Dec. 22, 2003.)	
		87. Mills et al., "Liquid-Nitrogen-Condensable Molecular Hydrogen Gas Isolated from a Catalytic Plasma Reaction," J. Phys. Chem. B, submitted.	
		86. Mills et al., "Novel Spectral Series from Helium-Hydrogen Evenson Microwave Cavity Plasmas that Matched Fractional-Principal-Quantum-Energy-Level Atomic and Molecular Hydrogen," European Journal of Physics, submitted. (Internet Publication Date: April 24,	
		85. Mills et al., "Highly Pumped Inverted Balmer and Lyman Populations," New Journal of Physics, submitted.	
Examiner Signature		Date Considered	

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İ		84. Mills et al., "Comparison of Balmer α Line Broadening and Power Balances of Helium- Hydrogen Plasma Sources," Braz. J. Phys., submitted. (Internet Publication Date: March 12, 2003.)			
	<u>.</u>	83. Mills et al., "Comparison of Water-Plasma Sources of Stationary Inverted Balmer and Lyman Populations for a CW HI Laser," J. Appl. Spectroscopy, in preparation.			
		82. Mills et al., "Synthesis and Characterization of Diamond Films from MPCVD of an Energetic Argon-Hydrogen Plasma and Methane," Journal of Materials Science, submitted. (Internet Publication Date: May 7, 2003.)			
	81. R. Mills, et. al., "Spectroscopic and NMR Identification of Novel Hydride Ions in Fractional Quantum Energy States Formed by an Exothermic Reaction of Atomic Hydrogen with Certain Catalysts," European Physical Journal: Applied Physics, 28, (2004), pp. 83-104. (Internet				
		80. Mills, "The Fallacy of Feynman's Argument on the Stability of the Hydrogen Atom According to Quantum Mechanics," Annales De La Fundation Louis De Broglie, Vol. 30, No. 2, (2005), pp. 129-151. (Internet Publication Date: Jan. 27, 2003.)			
		79. Mills et al., "Comparison of Catalysts and Microwave Plasma Sources of Vibrational Spectral Emission of Fractional-Rydberg-State Hydrogen Molecular Ion," Canadian Journal of Physics, submitted.			
		78. Mills et al., "Vibrational Spectral Emission of Fractional-Principal-Quantum-Energy-Level Molecular Hydrogen", J. of the Physical Society of Japan, submitted. (Internet Publication Date: Sept. 9, 2002.)			
		77. Mills et al., "Water Bath Calorimetric Study of Excess Heat in 'Resonant Transfer' Plasmas," Journal of Applied Physics, Vol. 96, No. 6, (2004), pp. 3095-3102. (Internet Publication Date: June 16, 2003.)			
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		76. Mills et al., "Comparison of Catalysts and Microwave Plasma Sources of Spectral Emission of Fractional-Principal-Quantum-Energy-Level Atomic and Molecular Hydrogen," Journal of Applied Spectroscopy, submitted. (Internet Publication Date: Feb. 12, 2002.)	,		
		75. Mills et al., "Novel Liquid-Nitrogen-Condensable Molecular Hydrogen Gas," Acta Physica Polonica A, submitted. (Internet Publication Date: Oct. 29, 2002.)			
		74. Mills et al., "Spectroscopic Study of Unique Line Broadening and Inversion in Low Pressure Microwave Generated Water Plasmas," Journal of Plasma Physics, Vol. 71, Part 6, (2005), pp. 877-78. (Internet Publication Date: June 18, 2003.)			
	73. Mills et al., "Energetic Helium-Hydrogen Plasma Reaction," AIAA Journal, submitted. (Internet Publication Date: July 26, 2002.)				
		72. R. L. Mills, M. Nansteel, P. C. Ray, "Bright Hydrogen-Light and Power Source due to a Resonant Energy Transfer with Strontium and Argon lons," Vacuum, submitted.			
		71. Mills et al., "Power Source Based on Helium-Plasma Catalysis of Atomic Hydrogen to Fractional Rydberg States," Contributions to Plasma Physics, submitted.			
		70. Mills et al., "Comparison of Catalysts and Plasma Sources of Vibrational Spectral Emission of Fractional-Rydberg-State Hydrogen Molecular Ion," The European Journal of Applied Physics, submitted. (Internet Publication Date: Sept. 2, 2002.)			
		69. Mills et al., "Spectroscopic Characterization of the Atomic Hydrogen Energies and Densities and Carbon Species During Helium-Hydrogen-Methane Plasma CVD Synthesis of Diamond Films," Chemistry of Materials, Vol. 15, (2003), pp. 1313–1321. (Internet Publication Date: Dec. 31, 2002.)			
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				Group Art Unit	1745
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		68. Mills, et. al. "Stationary Inverted Balmer and Lyman Populations for a CW HI Water- Plasma Laser." IEEE Transactions on Plasma Science, submitted. (Internet Publication Date: August 16, 2002)	
		67. Mills et al., "Extreme Ultraviolet Spectroscopy of Helium-Hydrogen Plasma," J. Phys. D, Vol. 36, (2003), pp. 1535–1542. (Internet Publication Date: July 17, 2002.)	
		66. Mills et al., "Spectroscopic Evidence for a Water-Plasma Laser," Europhysics Letters, submitted. (Internet Publication Date: Sept. 19, 2002.)	
		65. Mills et al., "Spectroscopic Evidence for Highly Pumped Balmer and Lyman Populations in a Water-Plasma," J. of Applied Physics, submitted. (Internet Publication Date: Sept. 18, 2002.)	
		64. Mills et al., "Low Power MPCVD of Diamond Films on Silicon Substrates," Journal of Vacuum Science & Technology A, submitted. (Internet Publication Date: June 26, 2002.)	
		63. Mills et al., "Plasma Power Source Based on a Catalytic Reaction of Atomic Hydrogen Measured by Water Bath Calorimetry," Thermochimica Acta, Vol. 406, Issue 1–2, (2003), pp. 35–53. (Internet Publication Date: June 25, 2002.)	
		62. Mills et al., "Synthesis and Spectroscopic Identification of Lithium Chloro Hydride," Inorganica Chimica Acta, submitted.	
		61. Mills et al., "Highly Stable Amorphous Silicon Hydride," Solar Energy Materials & Solar Cells, Vol. 80, No. 1, (2003), pp. 1–20. (Internet Publication Date: April 15, 2002.)	
Examiner Signature		Date Considered	<u> </u>

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				Group Art Unit	1745
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Sheet	26	of	3(	Attorney Docket Number	

		OTHER PRIOR ART — NON PATENT LITERATURE DOCUMENTS							
Examine r Initials*	Cite No. 1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>						
		60. Mills et al., "Synthesis of HDLC Films from Solid Carbon," Journal of Materials Science, Vol. 39, (2004), pp. 3309-3318. (Internet Publication Date: May 3, 2002.)							
		59. Mills et al., "The Potential for a Hydrogen Water-Plasma Laser," Applied Physics Letters, Vol. 82, No. 11, (2003), pp. 1679–1681. (Internet Publication Date: July 11, 2002.)							
		58. Mills, "Classical Quantum Mechanics," Physics Essays, Vol. 16, (2003), pp. 433-498. (Internet Publication Date: May 23, 2002.)							
		57. Mills, et. al. "Spectroscopic Characterization of Stationary Inverted Lyman Populations and Free-Free and Bound-Free Emission of Lower-Energy State Hydride Ion Formed by a Catalytic Reaction of Atomic Hydrogen and Certain Group I Catalysts, J. of Quantitative Spectroscopy							
		56. R. M. Mayo, R. Mills, "Direct Plasmadynamic Conversion of Plasma Thermal Power to Electricity for Microdistributed Power Applications," 40th Annual Power Sources Conference, Cherry Hill, NJ, June 10-13, (2002), pp. 1-4. (Internet Publication Date: March 28, 2002.)							
		55. Mills et al., "Chemically-Generated Stationary Inverted Lyman Population for a CW HI Laser," European J of Phys. D, submitted. (Internet Publication Date: April 22, 2002.)							
		54. Mills et al., "Stationary Inverted Lyman Population Formed from Incandescently Heated Hydrogen Gas with Certain Catalysts," J. Phys. D, Applied Physics, Vol. 36, (2003), pp. 1504–1509. (Internet Publication Date: March 20, 2002) also submitted to Chem Phys. Letts.							
		53. Mills, "A Maxwellian Approach to Quantum Mechanics Explains the Nature of Free Electrons in Superfluid Helium." Braz. J. Phys, submitted. (Internet Publication Date: June 4, 2002)							
Examiner Signature		Date Considered	<b>,</b> .						

<sup>\*</sup>EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>&</sup>lt;sup>1</sup> Unique citation designation number. <sup>2</sup> Applicant is to place a check mark here is English language Translation is attached.

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į N	FORMAT	ION F	ISCLOSURE	Filing Date	7/7/1998	
			APPLICANT	First Named Inventor	Mills	
			,	Group Art Unit	1745	
	(use as man	y sheets	as necessary)	Examiner Name	Kalafut	
Sheet	27		f 3C	Attorney Docket Number		

		OTHER PRIOR ART — NON PATENT LITERATURE DOCUMENTS			
Examine r Initials*	Cite No. 1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>		
		52. Mills et al., "Bright Hydrogen-Light Source due to a Resonant Energy Transfer with Strontium and Argon Ions," New Journal of Physics, Vol. 4, (2002), pp. 70.1–70.28. (Interpublication Date: October, 2002)	net		
		51. Mills et al., "CW HI Laser Based on a Stationary Inverted Lyman Population Formed Incandescently Heated Hydrogen Gas with Certain Group I Catalysts," IEEE Transactions Plasma Science, Vol. 31, No. 2, (2003), pp. 236–247. (Internet Publication Date: Feb. 4, 2002.)	from s on		
	50. Mills et al., "Spectral Emission of Fractional-Principal-Quantum-Energy-Level Atomic and Molecular Hydrogen," Vibrational Spectroscopy, Vol. 31, No. 2, (2003), pp. 195–213.				
	49. Mills et al., "Comparison of Excessive Balmer Line Broadening of Inductively and Capacitively Coupled RF, Microwave, and Glow Discharge Hydrogen Plasmas with Certain Catalysts," IEEE Transactions on Plasma Science, Vol. 31, No. 3, (2003), pp. 338–355.				
		48. Mills et al., "Direct Plasmadynamic Conversion of Plasma Thermal Power to Electricit IEEE Transactions on Plasma Science, October, (2002), Vol. 30, No. 5, pp. 2066–2073. (Internet Publication Date: March 26, 2002.)	у."		
i		47. H. Conrads, R. Mills, Th. Wrubel, "Emission in the Deep Vacuum Ultraviolet from a PI Formed by Incandescently Heating Hydrogen Gas with Trace Amounts of Potassium Carbo Plasma Sources Science and Technology, Vol. 12, (2003), pp. 389.	asma nate,"		
		46. Mills et al., "Emission in the Deep Vacuum Ultraviolet from a Plasma Formed by Incandescently Heating Hydrogen Gas with Trace Amounts of Potassium Carbonate," Pla Sources Science and Technology, Vol 12, (2003), pp. 389–395.	sma		
		45. Mills et al., "Synthesis and Characterization of a Highly Stable Amorphous Silicon Hydrost the Product of a Catalytic Helium-Hydrogen Plasma Reaction," Int. J. Hydrogen Energy Vol. 28, No. 12, (2003), pp. 1401–1424. (Internet Publication Date: April 15, 2002.)	dride /,		
Examiner Signature		Date Considered			

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Substitut	INFORMATION DISCLOSURE STATEMENT BY APPLICANT  (use as many sheets as necessary)	Complete if Known		
Substituti	e 101 101111 1449B/F 10		Application Number	09/110,678
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			First Named Inventor	Mills
			Group Art Unit	1745
	(use as many she	eets as necessary)	Examiner Name	Kalafut
Sheet	28	of 35	Attorney Docket Number	

		OTHER PRIOR ART — NON PATENT LITERATURE DOCUMENTS						
Examine r Initials*	Cite No. 1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.						
		44. Mills, et. al. "Synthesis and Characterization of Lithium Chloro Hydride", International Journal of Hydrogen Energy, submitted. (Internet Publication Date: January 7, 2002.)						
		43. Mills et al., "Substantial Changes in the Characteristics of a Microwave Plasma Due to Combining Argon and Hydrogen," New Journal of Physics, www.njp.org, Vol. 4, (2002), pp. 22.1–22.17. (Internet Publication Date: Dec. 27, 2001.)						
		42. Mills et al., "A Comprehensive Study of Spectra of the Bound-Free Hyperfine Levels of Novel Hydride Ion, Hydrogen, Nitrogen, and Air," Int. J. Hydrogen Energy, Vol. 28, No. 8, (2003), pp. 825–871. (Internet Publication Date: Nov. 14, 2001.)						
		41. Mills et al., "Novel Alkali and Alkaline Earth Hydrides for High Voltage and High Energy Density Batteries," Proceedings of the 17th Annual Battery Conference on Applications and Advances, California State University, Long Beach, CA, (January 15-18, 2002), pp. 1–6.						
		40. Mills et al., "On the Potential of Direct and MHD Conversion of Power from a Novel Plasma Source to Electricity for Microdistributed Power Applications," IEEE Transactions on Plasma Science, August, (2002), Vol. 30, No. 4, pp. 1568–1578. (Internet Publication Date: Nov. 12, 2001.)						
		39. Mills et al., "Stationary Inverted Lyman Populations and Free-Free and Bound-Free Emission of Lower-Energy State Hydride Ion Formed by an Exothermic Catalytic Reaction of Atomic Hydrogen and Certain Group I Catalysts," J. Phys. Chem. A, submitted. (Internet Publication Date: Nov. 13, 2001.)						
		38. Mills et al., "Highly Stable Novel Inorganic Hydrides from Aqueous Electrolysis and Plasma Electrolysis," Electrochimica Acta, Vol. 47, No. 24, (2002), pp. 3909–3926. (Internet Publication Date: June 13, 2002.)						
		37. Mills et al., "Comparison of Excessive Balmer Line Broadening of Glow Discharge and Microwave Hydrogen Plasmas with Certain Catalysts," J. of Applied Physics, (2002), Vol. 92, No. 12, pp. 7008–7022. (Internet Publication Date: Oct. 9, 2002.)						
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Substitute	INFORMATION DISCLOSURE STATEMENT BY APPLICANT  (use as many sheets as necessary)	Complete if Known			
Gubsiitut	5 101 101111 1449 <u>0</u> /1	10		Application Number	09/110,678
INI	EODMAT	ION DIS		Filing Date	7/7/1998
				First Named Inventor	Mills
				Group Art Unit	1745
	(use as man	y sheets as	necessary)	Examiner Name	Kalafut
Sheet	29	of	35	Attorney Docket Number	

		OTHER PRIOR ART — NON PATENT LITERATURE DOCUMENTS	
Examine r Initials*	Cite No. 1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
		36. Mills et al., "Emission Spectroscopic Identification of Fractional Rydberg States of Atomic Hydrogen Formed by a Catalytic Helium-Hydrogen Plasma Reaction," Vacuum, submitted. (Internet Publication Date: Oct. 9, 2001.)	
		35. Mills et al., "New Power Source from Fractional Rydberg States of Atomic Hydrogen," Current Appl. Phys., submitted. (Internet Publication Date: Oct. 9, 2001.)	
		34. Mills et al., "Spectroscopic Identification of Transitions of Fractional Rydberg States of Atomic Hydrogen," J. of Quantitative Spectroscopy and Radiative Transfer, in press. (Internet Publication Date: Oct. 9, 2001.)	
		33. Mills et al., "New Power Source from Fractional Quantum Energy Levels of Atomic Hydrogen that Surpasses Internal Combustion," J Mol. Struct., Vol. 643, No. 1-3, (2002), pp. 43–54. (Internet Publication Date: Oct. 10, 2001.)	
		32. Mills et al., "Spectroscopic Identification of a Novel Catalytic Reaction of Rubidium Ion with Atomic Hydrogen and the Hydride Ion Product," Int. J. Hydrogen Energy, Vol. 27, No. 9, (2002), pp. 927–935. (Internet Publication Date: Sept. 19, 2001.)	
		31. Mills et al., "Measurement of Energy Balances of Noble Gas-Hydrogen Discharge Plasmas Using Calvet Calorimetry," Int. J. Hydrogen Energy, Vol. 27, No. 9, (2002), pp. 967–978. (Internet Publication Date: Sept. 14, 2001.)	
		30. Mills et al., "Measurement of Hydrogen Balmer Line Broadening and Thermal Power Balances of Noble Gas-Hydrogen Discharge Plasmas," Int. J. Hydrogen Energy, Vol. 27, No. 6, (2002), pp. 671–685. (Internet Publication Date: Aug. 22, 2001.)	
		29. Mills et al., "Vibrational Spectral Emission of Fractional-Principal-Quantum-Energy-Level Hydrogen Molecular Ion," Int. J. Hydrogen Energy, Vol. 27, No. 5, (2002), pp. 533–564. (Internet Publication Date: July 19, 2001.)	
Examiner Signature		Date Considered	

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Cubsilial	6 101 101111 1443B/1	10	•	Application Number	09/110,678
INI	FODMAT	ION DIS	CI OSLIDE	Filing Date	7/7/1998
				First Named Inventor	Mills
				Group Art Unit	1745
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Sheet	30	of	3(	Attorney Docket Number	

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Examine r Initials*	Cite No. 1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
		28. Mills et al., "Spectral Emission of Fractional Quantum Energy Levels of Atomic Hydrogen from a Helium-Hydrogen Plasma and the Implications for Dark Matter," Int. J. Hydrogen Energy, (2002), Vol. 27, No. 3, pp. 301–322. (Internet Publication Date: Aug. 1, 2001.)	
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		26. Mills, "BlackLight Power Technology-A New Clean Hydrogen Energy Source with the Potential for Direct Conversion to Electricity," Proceedings of the National Hydrogen Association, 12 th Annual U.S. Hydrogen Meeting and Exposition, Hydrogen: The Common	
		25. Mills, et. al. "Minimum heat of formation of potassium iodo hydride." <i>International Journal of Hydrogen Energy</i> , Vol 26, 2001, pp. 1199-1208. (Internet Publication Date: March 23, 2001)	
		24. Mills, et al. "Stereoscopic Identification of a Novel Catalytic Reaction of Atomic Hydrogen and the hydride ion product." <i>International Journal of Hydrogen Energy,</i> Vol. 26. 2001. pp.1041-1058. (Internet Publication Date: March 23, 2001.)	
		23. Mills et al., "Optically Measured Power Balances of Glow Discharges of Mixtures of Argon, Hydrogen, and Potassium, Rubidium, Cesium, or Strontium Vapor," Int. J. Hydrogen Energy, Vol. 27, No. 6, (2002), pp. 651–670. (Internet Publication Date: July 20, 2001.)	
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		21. Mills, "The Grand Unified Theory of Classical Quantum Mechanics," Int. J. Hydrogen Energy, Vol. 27, No. 5, (2002), pp. 565–590. (Internet Publication Date: Sept. 17, 2001.)	
Examiner Signature		Date Considered	<u>.l.</u>

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Substitut	INFORMATION DISCLOSURE STATEMENT BY APPLICANT  (use as many sheets as necessary)	Complete if Known			
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				First Named Inventor	Mills
				Group Art Unit	1745
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		OTHER PRIOR ART — NON PATENT LITERATURE DOCUMENTS	
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		20. Mills et al., "Argon-Hydrogen-Strontium Discharge Light Source," IEEE Transactions on Plasma Science, Vol. 30, No. 2, (2002), pp. 639–653. (Internet Publication Date: Dec. 7, 2000.)	
		19. Mills et al., "Identification of Compounds Containing Novel Hydride Ions by Nuclear Magnetic Resonance Spectroscopy," Int. J. Hydrogen Energy, Vol. 26, No. 9, (2001), pp. 965–979. (Internet Publication Date: March 22, 2001.)	
		18. Mills, "BlackLight Power Technology-A New Clean Energy Source with the Potential for Direct Conversion to Electricity," Global Foundation International Conference on "Global Warming and Energy Policy," Dr. Behram N. Kursunoglu, Chairman, Fort Lauderdale, FL,	
		17. Mills, "The Nature of Free Electrons in Superfluid Helium—a Test of Quantum Mechanics and a Basis to Review its Foundations and Make a Comparison to Classical Theory," Int. J. Hydrogen Energy, Vol. 26, No. 10, (2001), pp. 1059–1096. (Internet Publication Date: Dec. 11,	,
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		15. Mills et al., "Observation of Extreme Ultraviolet Hydrogen Emission from Incandescently Heated Hydrogen Gas with Certain Catalysts," Int. J. Hydrogen Energy, Vol. 25, (2000), pp. 919–943. (Internet Publication Date: June 27, 2000.)	
		14. R. Mills, "Observation of Extreme Ultraviolet Emission from Hydrogen-Kl Plasmas Produced by a Hollow Cathode Discharge," Int. J. Hydrogen Energy, Vol. 26, No. 6, (2001), pp. 579-592. (Internet Publication Date: July 10, 2000.)	
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Substitute	INFORMATION DISCLOSURE STATEMENT BY APPLICANT  (use as many sheets as necessary)		Complete if Known		
Substitute	5 101 101111 1445 <i>b</i> /F	10		Application Number	09/110,678
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				First Named Inventor	Mills
				Group Art Unit	1745
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		12. Mills et al., "Formation of a Hydrogen Plasma from an Incandescently Heated Hydrogen-Catalyst Gas Mixture with an Anomalous Afterglow Duration," Int. J. Hydrogen Energy, Vol. 26, No. 7, July, (2001), pp. 749–762. (Internet Publication Date: June 28, 2000.)	
		11. Mills et al., "Observation of Extreme Ultraviolet Hydrogen Emission from Incandescently Heated Hydrogen Gas with Strontium that Produced an Anomalous Optically Measured Power Balance," Int. J. Hydrogen Energy, Vol. 26, No. 4, (2001), pp. 309–326. (Internet Publication Date: June 27, 2000.)	
·		10. Mills et al., "Synthesis and Characterization of Potassium Iodo Hydride," Int. J. of Hydrogen Energy, Vol. 25, Issue 12, December, (2000), pp. 1185–1203. (Internet Publication Date: Nov. 12, 2001.)	
		9. Mills. "Novel inorganic hydride." International Journal of Hydrogen Energy, Vol 25, 2000, pp. 669-683. (Internet Publication Date: June 28, 2000)	
		8. Mills et al., "Synthesis and Characterization of Novel Hydride Compounds," Int. J. of Hydrogen Energy, Vol. 26, No. 4, (2001), pp. 339–367. (Internet Publication Date: June 13, 2001.)	
		7. R. Mills, "Highly Stable Novel Inorganic Hydrides," Journal of New Materials for Electrochemical Systems, Vol. 6, (2003), pp. 45-54. (Internet Publication Date: Nov. 20, 2001.)	
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Examiner Signature		Date Considered	I

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Examine r Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
		4. Mills et al., "Fractional Quantum Energy Levels of Hydrogen," Fusion Technology, Vol. 28, No. 4, November, (1995), pp. 1697–1719. (Internet Publication Date: Nov. 1, 2001.)	
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		Mills Technologies. "1KW Heat Exchanger System." Thermacore, Inc., Oct 11 1991, pp. 1-6	
,		Mills Technologies. "1KW Heat Exchanger System." Thermacore, Inc., April 17, 1992, pp. 1-6	
		Mills, "Classical Quantum Mechanics." Physica Scripta, submitted.	
		Mills, "The Grand Unified Theory of Classical Quantum Mechanics," (2001), Distributed by Amazon.Com.	
		Mills, et. al. "Excess Heat ProductionCold Fusion." Fusion Technology, Vol 20, Feb 1991, pp. 65-81.	
		Mills, et. al. Fusion Technol. Vol.20, 65 (1991). Internet Publication Date 4/11/01	
Examiner Signature		Date Considered	<u> </u>

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·				Group Art Unit	1745		
	(use as many she	ets as	necessary)	Examiner Name	Kalafut		
Sheet	34	of	35	Attorney Docket Number			

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		Mills,. "Author's response 'A possible trick of Hydride atom'," <i>International Journal of Hydrogen Energy</i> , Vol 26, 2001, p. 1225.				
		Mills, "BLACKLIGHT POWER TECHNOLOGY: A New Clean Energy Source with the Potential for Direct Conversion to Electricity," <i>International Conference on Global Warming and Energy Policy</i> , Ft. Lauderdale, Florida, November 26-28, 2000. Internet Publication 1/19/01				
	Mills, "Hydro catalysis Power Technology," Statement of Dr. Randell L. Mills, May, 1993.					
	Mills, "The Grand Unified Theory of Classical Quantum Mechanics," pp. 1-9  Mills, "Unification of Spacetime, the Forces, Matter, Energy, Hydro catalysis Power Corporation," 1992, pp. 53-84.					
		Mills, "Author's response to 'Hydrino atom: novel chemistry or invalid physics'," International Journal of Hydrogen Energy, Vol 26, 2001, pp. 1233.				
		Mills,"Author's response to 'Hydrino theory- a proposed amendment'," International Journal of Hydrogen Energy, Vol 26, 2001, pp. 1229-1231.				
· · · · · · · · · · · · · · · · · · ·		Mills."Power Spectrum of the Cosmic Microwave Background" BlackLight Power, Inc. 2001.				
Examiner Signature		Date Considered				

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Substitute	e for form 1449B/PTO			Complete if Known			
Substitute	101 101111 1449B/F 10			Application Number	09/110,678		
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	ATEMENT E			First Named Inventor	Mills		
				Group Art Unit	1745		
	(use as many she	ets a	s necessary)	Examiner Name	Kalafut		
Sheet	35	of	35	Attorney Docket Number			

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		OTHER PRIOR ART — NON PATENT LITERATURE DOCUMENTS	
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		Mills, "The Grand Unified Theory of Classical Quantum Mechanics," pp. 13-14, BlackLight Power, Inc., pp. 433-440, 2001.	
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Examiner Signature		Date Considered	I

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			Compensation	Payments	Options	Shares
ATTACHMENT A		Date(s)	Arrangements	Made	Issued	Owned
AKHTAR			Employee		EE Options	
Employee)	Dr. Kamran	•	Salary	-	Only	None
BALDWIN						
NASA)	Dr. R.	-	-	-	None	None
BONIFACE						
	Dr. H.A.	_	_	_	None	None
Chair River Labs	DI. H.A.		Ad Hoc/		INOTIE	Notic
BRADFORD	Dia .		One-time			•
PSU Student)	Michael	9/13/1994	Only	9/13/1994	None	None
CHANG	(U)(C)(C)(C)	3/10/1004	Employee	0/10/1004	EE Options	110110
Employee)	Dr. Zhixiang	_	Salary	_	Only	None
CHEN	Dr. Zilixiang	<del></del>	Guidiy		EE Options	110110
(EE & Consultant)	Dr. Chun-Ku	6/1/04-5/31/05	\$50/hour	2/7/2005	Only	None
CHEN	or. Grain-iva	3, 1, 3 + 3, 3, 1, 10 3	Employee	22000	EE Options	110.10
(Employee)	Dr. Xuemin	_	Salary	_	Only	None
CLARK	DI. Addilliii	-	- Calary		<u> </u>	140110
(INP Greifswald)	Dr. H.R.				None	None
intr Greiiswaid)		-	-	-	INOTIC	NOTE
					Options granted	
				ł	from 9/9/96 to	
	APPEARS NOT				8/5/97;	
CONRADS	<b>新</b>				some options	
(INP Greifswald		8/4/99-9/23/05	2 wire transfers	2/14/00	expired;	Some options
transferred agrmnt	Da	014133-3123103	2 Wile translers	6/12/01	some options	exercised
to Conrads)	populues no			0/12/01	exercised 9/7/06	9/7/06
CRAIG	Dr. W.Y.	-		-	None	None
CRAW-IVANCO	D1. <b>VV</b> .1.				110110	110110
	D- 44 T				None	None
<i>(Chalk River Labs)</i> DAYALAN	Dr. M.T.	•	Employee	•	EE Options	None
	Dr. Ethiroiulu		Salary		Only	None
<i>(Employee)</i> DHANDAPANI	Dr. Ethirajulu	-	Employee		EE Options	None
	Dr. Bala		Salary		Only	None
(Employee)	Dr. Baia	7/30/03-1/31/04	\$35/hour	2/28/02	Cilly	None
DONG		2/1/04-7/31/04	\$45/hour	8/20/03	EE Options	
	Da linavan	11/16/04-5/1/505	\$45/1001 \$45hour	0/20/03	1 ' 1	None
(EE & Consultant) ECHEZURIA	Dr. Jinquan	11/10/04-0/1/000		<u> </u>	Only EE Options	INOTIE
(Employee)	Alejandra		Employee Salary		Only	None
FRALICK	Aicjanuta	-	Galary	<del></del>		NOTE
(Semitech)	Dr. G.C.	_	_		None	None
FUELLING	D2	-	<del>                                     </del>	<del></del>	140/16	None
(U Nevada)	D7. Stephan				None	None
GAMBERALE	Luca		<del>-</del>	-	None	None
GERNERT	Luca	-	<del>                                     </del>	<del>                                     </del>	None	NOTIC
(Thermacore)	Dr. N.J.			_	None	None
(Thermacore)	DI. N.J.	•	-	<del> </del>	EE & Officer	NOHE
					Options Issued	Shares Owned
GOOD			Employee		Beginning	Beginning
	M/illiam				9/1/92	1991
(EE & Officer)	William	-	Salary		1 9/1/92	ופפו

				7/19/95		
		11/1/01-10/31/02	\$50/hour	4/27/01		
		11/1/02-10/31/03	\$50/hour	10/14/02		
		3/8/04-3/7/05	\$50/hour	1	ľ	
•	4	3/8/05-3/7/06	\$50/hour		i	
GREENIG		3/8/06-3/7/07	\$50/hour		EE Options	
			· ·			A.1
(EE & Consultant)	Nelson	3/8/07-3/7/08	\$50/hour		Only	None
				1		
HALDEMAN		.		1		
(MIT Lincoln Labs)	Dr. C.W.	•			None	None
HE			Employee	1	EE Options	
(Employee)	Dr. Jiliang	-	Salary		Only	None
HICKS			Employee		EE Options	
(Employee)	Steven	-	Salary	-	Only	None
HILBORN	l	•				
(Chalk River Labs)	Dr. J.W.	-	•	-	None	None
l				] .		
ISELER					İ	
(MIT Lincoln Labs)	Dr. G.W.	-	-	<u> </u>	None	None
	AL PROPERTY.					
					Options granted	
,		·			9/9/96 to 3/3/97;	
JACOX	Dr.				all options	
(INEL)	Michael	-	-		expired	None
						Purchased shares
ŀ					,	7/2/97;
				1		gifted to
JANSSON		6/10/02-10/31/02	\$100	10/17/97		ex-wife and son
	D. D.4				<b>N</b> 1	
(Rowan U)	Dr. Peter M.	(contract)	\$10	12/31/2002	None	5/1/07
KNEIZYS	S.	-		-	None	None
KRYUKOV				1		
(Moscow Power						
Engineering						
Institute)	Dr. A.P.		<u>-</u>	-	None	None
					Options granted	
					9/9/96 to	
KURTZ	Da S				11/8/02; some	
(PSU)	Steward:	-	-	] -	expired	None ·
LEE						
(U of Ohio)	Dr. Jang-Jung	•	-	_	None	None
<u> </u>	<u> </u>	8/6/01	\$100/hour	10/01/01		
		5/9/03-5/16/03	\$80/hour	5/23/03		
		5/27/03-5/30/03	\$80/hour	1		
	1	5/30/03-6/30/03	\$45/hour			
LU		7/1/03-7/31/03	\$45/hour		EE Options	
(EE & Consultant)	Dr Vinn	8/1/03-1/30/04			•	Mana
	Dr. Ying		\$45/hour		Only	None
MARCHESE	<u> </u>	6/10/02-10/31/02	\$10	10/04/5555		
(Rowan U)	Anthonyda	(contract)	non-material	12/31/2002	None	None
MAYO					EE Options	
(EE & Consultant)	Dr. Robert	6/8/01-8/8/01	\$50/hour	7/23/2001	Only	None
MEYERS						
(NASA)	Dr. I.	•	-	-	None	None
					Options granted	
					9/9/96 to 3/3/97;	·
MILLER	Da S			1	all options	
(Lehigh U)	Alfred		\$250	6/12/1997	expired	None
ncemun o						

		<del></del>			EE & Director	
•						Charas Owned
MILLS	]		Employee		Options Issued	Shares Owned
	Dr. Dandall		Employee		Beginning 9/9/96	Beginning
(EE & Director)	Dr. Randell	3/30/05-3/29/06	Salary \$80/hour		9/9/90	1991
NANOTEE				0/04/2005	EE Ontions	
NANSTEEL		3/30/06-3/29/07	\$80/hour	8/24/2005	EE Options	
(EE & Consultant)	Die MerikW	3/30/07-8/31/08	\$80/hour		Only	None
NESTEROV						
(Moscow Power						
Engineering						
Institute)	Dr. S.B.	<u> </u>	<u> </u>		None	None
NIEDRA						
(NASA)	Dr. J.	<u> </u>	-	-	None	None
NONINSKI	<u> </u>					
(Brookhaven)	Dr. V.	-	<del></del>	•	None	None
ONUMA			Employee		EE Options	
(Employee)	Dr. Takeyoshi	<u>-</u>	Salary	-	Only	None
		}				Purchased shares
						9/20/96 &
					Options granted	7/2/97; transferred all
191		İ			4/7/97	shares
	1				to 4/27/98;	to ScottishPower
					some options	Ventures, Inc.
PACIFICORP			_	_	expired	6/21/07
PETERSON				<del>  </del>	охриос	0.2
(Westinghouse)	Dr. S.H.	_	_	_	None	None
(Westinghouse)	01. 0.11.	2/1/96-1/31/97	\$100/hour		110110	110110
	<u> </u>	1/1/97-4/30/97	Options Only			
	ŀ	3/15/00-3/18/00	\$5,000	4/26/95		
	}	10/8/01-4/8/02	\$125/hour	5/9/00		
		4/8/02-10/8/02	\$125/hour			
		10/9/02-10/8/03	\$125/hour			
		10/9/03-10/8/04	\$100/hour		Options granted	
		10/9/04-10/8/05	\$100/hour		9/9/96-1/14/06:	Some options
PHILLIPS		10/9/05-10/8/06	\$100/hour		some options	exercised
(PSU,UNM,LANL)	Dr. Jonathan	10/9/06-10/807	\$100/hour		exercised	9/1/06 & 2/20/07
RAY	Dr. Jonathan	10/3/00-10/001	Employee	<del> </del>	EE Options	0/1/00 Q E/E0/07
(Employee)	Dr. Paresh	_	Salary	_	Only	None
SANKAR	Dr. Palesii	3/17/03-3/16/04	\$50/hour	<del></del>	EE Options	110110
(EE & Consultant)	Javasico	3/22/04-3/21/05	\$50/hour	_	Only	None
TLL & Consultant)		SIZZIO-FOIZ IIOS	<del>\$00,110a1</del>	<del> </del>	<u> </u>	,,,,,,,
SAVOYE	}			1		
(MIT Lincoln Labs)	lnr GW	_	_	_	None	None
(mir Emcom Labs)		1/5/05-1/4/06	\$800/day	<del> </del>	110110	110110
SCHARER	<u> </u>	1/5/06-1/4/07	\$100/hour			
(U Wisconsin)	Dr. John	1/5/07-1/4/08	\$100/hour	11/14/2005	None	None
SCHMALZEL		6/10/02-10/31/02	\$110/11041	1 11 17/2003	None	110110
(Rowan U)		(contract)	non-material	12/31/2002	None	None
SHANNON		(Contract)	Employee	12/3/1/2002	EE Options	140116
(Employee)	Tina	_	Salary	_	Only	None
SHAUBACH	1111a	-	Jaiary	<u> </u>	Oiny	110110
	Dr PM	_	_	_	None	None
(Thermacore) SIMMONS	Dr. R.M.	•	-	<del>                                     </del>	110116	None
	Dr. G		_	-	None	None
(Lehigh U)	Dr. G.	•	•	<del>                                     </del>	140116	140116
TREMBLAY				· .		
(Chalk River Labs)	Dr. R.P.		I -	-	None	None

TURNER						
(Spectral Data)	Dr. Gary L.	<u>-</u>	-	_	None	None
VOIGT	Dis Andreas				EE Options	
(EE & Consultant)	Andreas 40	8/27/04-8/26/05	\$50/hour		Only	None
WATTS						
(INEL)	Dr. K.D.	•	-	-	None	None
WEISMANN	Dr. H.	•	-	-	None	None
WIESMANN	Dr. H.	•	-	-	-	•
WRUBEL						
(INP Greifswald)	Dr. Th.	-	-	-	None	None
ZEA			Employee		EE Options	
(Employee)	Dr. Hugo	-	Salary	-	Only	None

## **ATTACHMENT B**

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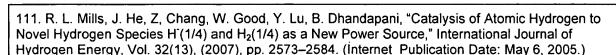
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PLATT, "Testing the Current," The Washington Post, June 25, 2000, Page X05 (see Attachment M)

USPTO Communication re Interview scheduled for February 21, 2003, February 12, 2001(see Attachment N)

Letter from Senator Ron Wyden to The Honorable Todd Q. Dickinson with attachments, April 5, 2000 (see Attachment O)

Letter from Senator Robert G. Torricelli to Nicholas P. Godici with attachments, July 20, 2001(see Attachment O)

Letter from Senator Jon S. Corzine to The Honorable Todd Q. Dickinson with attachments, August 2, 2001 (see Attachment O)

Letter from Senator Max Cleland to Ms. Jane Cooksey with attachments, March 24, 2000 (see Attachment O)

Letter from Senators Max Cleland and Ron Wyden to Chairman Patrick Leahy, December 20, 2001 (see Attachment O)

Letter from Senators Max Cleland and Ron Wyden to The Honorable Donald L. Evans, December 20, 2001 (see Attachment O)

Letter from Senators Jon S. Corzine and Robert G. Torricelli to The Honorable Donald L. Evans, December 21, 2001 (see Attachment O)

Email re Interview Summary from Jeffrey Simenauer to Ted Liu, February 13, 2003 (see Attachment P)

"APS E-Board Pases Resolution on Perpetual Motion Machines," APS NEWS ONLINE, August/September 2002, <a href="http://www.eps.org/aps/apsnews/0802/080212.html">http://www.eps.org/aps/apsnews/0802/080212.html</a> (see Attachment Q)

Letter from Elizabeth Barlow to John Allen, March 17, 2004 (see Attachment R)

Letters from John Allen to Office of Counsel, US Department of Commerce with attachments, May 12, 2003, June 7, 2003, and March 10, 2004 (see Attachment R)

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		OTHER PRIOR ART — NON PATENT LITERATURE DOCUMENTS	
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T²
		H. Conrads, R. Mills, Th. Wrubel, "Emission in the Deep Vacuum Ultraviolet from an Incandescently Driven Plasma in a Potassium Carbonate Cell", Plasma Sources Science and Technology, submitted.	
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		R. Mills, P. Ray, J. Dong, M. Nansteel, W. Good, P. Jansson, B. Dhandapani, J. He, "Excessive Balmer Line Broadening, Power Balance, and Novel Hydride Ion Product of Plasma Formed from Incandescently Heated Hydrogen Gas with Certain Catalysts", Int. J. Hydrogen Energy, submitted					
		R. Mills, E. Dayalan, P. Ray, B. Dhandapani, J. He, "Highly Stable Novel Inorganic Hydrides from Aqueous Electrolysis and Plasma Electrolysis", Japanese Journal of Applied Physics, submitted					
		R. L. Mills, P. Ray, B. Dhandapani, J. He, "Comparison of Excessive Balmer Line Broadening of Glow Discharge and Microwave Hydrogen Plasmas with Certain Catalysts", Chem. Phys., submitted.					
		R. L. Mills, P. Ray, B. Dhandapani, J. He, "Spectroscopic Identification of Fractional Rydberg States of Atomic Hydrogen", J. of Phys. Chem. (letter), submitted.					
		R. L. Mills, P. Ray, B. Dhandapani, M. Nansteel, X. Chen, J. He, "New Power Source from Fractional Rydberg States of Atomic Hydrogen", Chem. Phys. Letts., submitted.					
		R. L. Mills, P. Ray, B. Dhandapani, M. Nansteel, X. Chen, J. He, "Spectroscopic Identification of Transitions of Fractional Rydberg States of Atomic Hydrogen", Quantitative Spectroscopy and Energy Transfer, submitted.					
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		Number	Kind Code <sup>w</sup> (if known)		MM-DD-YYYY	Passages or Relevant Figures Appear
<del></del>		4,353,871		Bartitt et al	10-12-1982	
		4 702 894		Cornish	10-27-1987	
		4,808,286		Angelo, II	02-28-1989	
		3,253,884		Jung, et al	05-31-1966	
	ļ	4.155.712		Taschek	05-22-1979	
		5.593.640		Long, et al	01-14-1997	
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<sup>&</sup>lt;sup>1</sup> Unique citation designation number. <sup>2</sup> See attached Kinds of U.S. Patent Documents. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST. 3) <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

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	<del></del>	OTHER PRIOR ART — NON PATENT LITERATURE DOCUMENTS					
Examiner nitials*	Cite No. <sup>1</sup>						
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